**SYLLABUS REVISION – 2023 (B.Arch)**

**STRUCTURE OF BACHELOR OF ARCHITECTURE**

**(BARCH UG PROGRAMME)**

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| **FIRST YEAR [I SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 101 | Principles of Architecture | 3 | 0 | 0 | 3 | 3 | PC |
| AR 102 | Primary Building Materials | 3 | 0 | 0 | 3 | 3 | PC |
| AR 103 | History of Indian Architecture | 3 | 0 | 0 | 3 | 3 | PC |
| **NON-DEPARTMENTAL THEORY SUBJECTS** | | | | | | | |
| MA104 | Mathematics for Architects | 3 | 0 | 0 | 3 | 3 | FS |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 111 | Architectural Design – I | 0 | 0 | 6 | 9 | 6 | PC |
| AR 112 | Descriptive Geometry | 0 | 0 | 6 | 3 | 6 | PC |
| AR 113 | Construction Technique and Model Making Workshop | 0 | 0 | 4 | 2 | 4 | PC |
| **MANDATORY COURSE** | | | | | | | |
| MC  101/  102/  103/  104 | Choice of: NCC/NSS/  PT & Games/ Creative Arts (CA) | 0 | 0 | 2 | 1 | 2 | MC |
| **TOTAL CREDIT** | | | | | **27** |  | |
| **Total Contact hours** | | | | | | **30** |  |

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| **FIRST YEAR [II SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 151 | Advanced Building Materials | 3 | 0 | 0 | 3 | 3 | PC |
| AR 152 | History of Architecture- Western | 3 | 0 | 0 | 3 | 3 | PC |
| AR 153 | Statics & Strength of Materials | 3 | 0 | 0 | 3 | 3 | PC |
| **PROGRAMCORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 161 | Architectural Design – II | 0 | 0 | 6 | 9 | 6 | PC |
| AR 162 | Building Construction – I | 0 | 0 | 4 | 6 | 4 | PC |
| AR 163 | Architectural Rendering Techniques | 0 | 0 | 4 | 2 | 4 | PC |
| **NON-DEPARTMENTAL SESSIONAL SUBJECTS** | | | | | | | |
| MT132 | Communication Skills -I | 0 | 0 | 0 | 1.5 | 4 |  |
| **MANDATORY COURSE** | | | | | | | |
| MC  105/ 106/ 107/ 108 | Choice of: NCC/NSS/  PT & Games/ Creative Arts (CA) | 0 | 0 | 2 | 1 | 2 | MC |
| **TOTAL CREDIT** | | | | | **28.5** |  | |
| **Total Contact hours** | | | | | | **29** |  |

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| **SECOND YEAR [III SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 201 | Climatology | 3 | 0 | 0 | 3 | 3 | PC |
| AR 202 | Building Construction and Codes | 3 | 0 | 0 | 3 | 3 | PC |
| AR 203 | Contemporary Architecture | 3 | 0 | 0 | 3 | 3 | PC |
| AR 204 | Structural Mechanics | 3 | 0 | 0 | 3 | 3 | PC |
| **NON-DEPARTMENTAL THEORY SUBJECTS** | | | | | | | |
| CE 101 | Environmental Sciences | 2 | 0 | 0 | 2 | 2 | FS |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 211 | Architectural Design - III | 0 | 0 | 6 | 9 | 6 | PC |
| AR 212 | Building Construction – II | 0 | 0 | 4 | 6 | 4 | PC |
| AR 213 | Computer Application in Architecture | 0 | 0 | 4 | 2 | 4 | PC |
| **MANDATORY COURSE** | | | | | | | |
| MC 201/ 202/ 203/  204 | Choice of: NCC/NSS/  PT & Games/ Creative Arts (CA) | 0 | 0 | 2 | 1 | 2 | MC |
| **TOTAL CREDIT** | | | | | **32** |  | |
| **Total Contact hours** | | | | | | **30** |  |

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| **SECOND YEAR [IV SEMESTER]** | | | | | | | | | | |
| **Subject Code** | | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | | | | |
| AR 251 | | Building Services – I (Water Supply and Sanitation) | 3 | 0 | | 0 | 3 | 3 | | PC |
| AR 252 | | Building Services – II (Electrical & Lighting) | 3 | 0 | | 0 | 3 | 3 | | PC |
| AR 253 | | Site Planning and Landscape Architecture | 3 | 0 | | 0 | 3 | 3 | | PC |
| **OPEN ELECTIVE** | | | | | | | | | | |
|  | OPEN ELECTIVE I | | 3 | 0 | | 0 | 3 | 3 | | OE |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | | | | |
| AR 261 | | Architectural Design - IV and Academic Field Trip | 0 | 0 | | 6 | 9 | | 6 | PC |
| AR 262 | | Building Construction – III | 0 | 0 | | 4 | 6 | | 4 | PC |
| **NON-DEPARTMENTAL SESSIONAL SUBJECTS** | | | | | | | | | | |
| CE 212 | | Surveying Field Work | 0 | 0 | | 4 | 2 | | 4 | Other Dept L/S |
| **MANDATORY COURSE** | | | | | | | | | | |
| MC 205/206/ 207/ 208 | | Choice of: NCC/NSS/  PT & Games/ Creative Arts (CA) | 0 | | 0 | 2 | 1 | 2 | | MC |
| **TOTAL CREDIT** | | | | | | | **30** |  | | |
| **Total Contact hours** | | | | | | | | **28** | |  |
| **Note 1: Open Elective to be offered by the Department:**AR 251Building Services – I (Water Supply and Sanitation) | | | | | | | | | | |

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| **THIRD YEAR [V SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 301 | Acoustics | 3 | 0 | 0 | 3 | 3 | PC |
| AR 302 | Building Services – III (Mech. & Fire Safety) | 3 | 0 | 0 | 3 | 3 | PC |
| **NON-DEPARTMENTAL THEORY SUBJECTS** | | | | | | | |
| MT 204 | Constitution of India | 3 | 0 | 0 | Nil Credit | 3 | HSS |
| CE 301 | Structural Design - I | 4 | 0 | 0 | 4 | 4 | Civil |
| **OPEN ELECTIVES** | | | | | | | |
|  | OPEN ELECTIVE II | 3 | 0 | 0 | 3 | 3 | OE |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 311 | Architectural Design - V | 0 | 0 | 9 | 13.5 | 9 | PC |
| AR 312 | Working Drawing-I | 0 | 0 | 4 | 2 | 4 | PC |
| AR 313 | Building Information Modelling | 0 | 0 | 3 | 1.5 | 3 | PC |
| **TOTAL CREDIT** | | | | | **30** |  | |
| **Total Contact hours** | | | | | | **32** |  |
| **Note 2: Open Elective to be offered by the Department:AR 302 Building Services – III (Mech. & Fire Safety)** | | | | | | | |

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| **THIRD YEAR [VI SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 351 | Specification, Estimation and Costing | 3 | 0 | 0 | 3 | 3 | DC |
| **NON-DEPARTMENTAL THEORY SUBJECTS** | | | | | | | |
| CE 308 | Structural Design II | 4 | 0 | 0 | 4 | 4 | Civil |
| **PROGRAM ELECTIVES- Theory (02 offered; any one to be opted)** | | | | | | | |
| AR 352 | Vernacular Architecture | 3 | 0 | 0 | 3 | 3 | PE |
| AR 353 | Architectural Conservation and Heritage Management |
| **OPEN ELECTIVES** | | | | | | | |
|  | OPEN ELECTIVE III | 3 | 0 | 0 | 3 | 3 | OE |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 361 | Architectural Design - VI and Academic Field Trip | 0 | 0 | 9 | 13.5 | 9 | Dept L/S |
| AR 362 | Working Drawing II | 0 | 0 | 4 | 2 | 4 | Dept L/S |
| **NON-DEPARTMENTAL SESSIONAL SUBJECTS** | | | | | | | |
| MT133 | Communication Skills -II | 0 | 0 | 0 | 1.5 | 4 |  |
| **TOTAL CREDIT** | | | | | **30** |  | |
| **Total Contact hours** | | | | | | **30** |  |
| **Note 3: All Architectural Design Sessional Subjects up till V semester must be cleared before registering for VII Semester Architectural Design Sessional.** | | | | | | | |
| **Note 4: Departmental/ Program Elective to be offered as Open Elective to students of other departments: AR 351 Specification, Estimation and Costing** | | | | | | | |

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| **FOURTH YEAR [VII SEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE THEORY SUBJECTS** | | | | | | | |
| AR 401 | Housing and Settlement System | 3 | 0 | 0 | 3 | 3 | DC |
| AR 402 | Structural Design and Systems | 3 | 0 | 0 | 3 | 3 | DC |
| AR 403 | Energy Efficient Architecture | 3 | 0 | 0 | 3 | 3 | DC |
| **PROGRAM ELECTIVES- Theory (02 offered; any one to be opted)** | | | | | | | |
| AR 404 | Disaster Management and Resilient Structures | 3 | 0 | 0 | 3 | 3 | PE |
| AR703 | Sustainable City Planning  (PG Subject) |
| **OPEN ELECTIVES** | | | | | | | |
|  | OPEN ELECTIVE IV | 3 | 0 | 0 | 3 | 3 | OE |
| **PROGRAM CORE SESSIONAL SUBJECTS** | | | | | | | |
| AR 411 | Architectural Design - VII | 0 | 0 | 9 | 13.5 | 9 | Dept L/S |
| AR 412 | Interior Design | 0 | 0 | 4 | 2 | 4 | Dept L/S |
| **TOTAL CREDIT** | | | | | **30.5** |  | |
| **Contact hours** | | | | | | **28** |  |
| **Note 5: Departmental/ Program Elective to be offered as Open Elective to students of other departments: AR 403 Energy Efficient Architecture** | | | | | | | |

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| **FOURTH YEAR [VIIISEMESTER]**  **[Architectural Apprenticeship/ Internship]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **SESSIONAL SUBJECTS** | | | | | | | |
| AR 461 | Architectural Apprenticeship | 0 | 0 | 0 | 6 | 0 | Office Training |
| AR 462 | Field Studies | 0 | 0 | 0 | 3 | 0 | Office Training |
| AR 463 | Comprehensive Viva & Time Test | 0 | 0 | 3 | 3 | 3 |  |
| **TOTAL CREDIT** | | | | | **12** |  | |
| **Total Contact Hours** | | | | | | **3** |  |

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| **FIFTH YEAR [IXSEMESTER]** | | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | | |
| AR 501 | Urban Design | 3 | | 0 | 0 | 3 | 3 | DC |
| AR 502 | Human Settlements Planning | 3 | | 0 | 0 | 3 | 3 | DC |
| **PROGRAM ELECTIVES- Theory (02 offered; any one to be opted)** | | | | | | | | |
| AR 503 | Theory of Design | 3 | | 0 | 0 | 3 | 3 | PE |
| AR605 | Urban Ecology and Environmental Planning  (PG Subject) |
| **OPEN ELECTIVE OR MOOC COURSES** | | | | | | | | |
|  | MOOC COURSES | 0 | | 0 | 0 | 2 | 0 | MOOC |
| **PROGRAM CORE- SESSIONAL SUBJECTS** | | | | | | | | |
| AR 511 | Architectural Design - VIII | 0 | | 0 | 12 | 18 | 12 | Dept L/S |
| AR 512 | Introduction to Thesis Project & Research Methodology (Dissertation) | 0 | | 0 | 4 | 2 | 4 | Dept L/S |
| **TOTAL CREDIT** | | | | | | **31** |  | |
| **Total Contact hours** | | | | | |  | **25** |  |
| **Note 6: Departmental/ Program Elective to be offered as Open Elective to students of other departments: AR 502 Human Settlements Planning** | | | | | | | | |

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| **FIFTH YEAR [XSEMESTER]** | | | | | | | |
| **Subject Code** | **Subject** | **L**  **(Periods/ week)** | **T**  **(Periods/ week)** | **P**  **(Periods/ week)** | **Credit** | **Contact Hrs.** | **Category of Course** |
| **PROGRAM CORE - THEORY SUBJECTS** | | | | | | | |
| AR 551 | Professional Practice and Tendering Process | 3 | 0 | 0 | 3 | 3 | DC |
| AR 552 | Construction Project Management | 3 | 0 | 0 | 3 | 3 | DC |
| **MOOC COURSES** | | | | | | | |
|  | MOOC COURSES | 0 | 0 | 0 | 2 | 0 | MOOC |
| **PROGRAM CORE - SESSIONAL SUBJECTS** | | | | | | | |
| AR 561 | Architectural Design Thesis/ Project | 0 | 0 | 12 | 18 | 12 | Dept L/S |
| **TOTAL CREDIT** | | | | | **26** |  | |
| **Total Contact Hours** | | | | | | **18** |  |
| **Note 7: All sessional subjects and Architectural Apprenticeship/ Internship must be cleared before registering for the AR 561 Architectural Design Thesis/ Project in the X Semester.** | | | | | | | |